

Figure 2

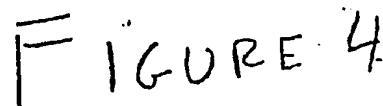
[illegible]

FIGURE 4

228

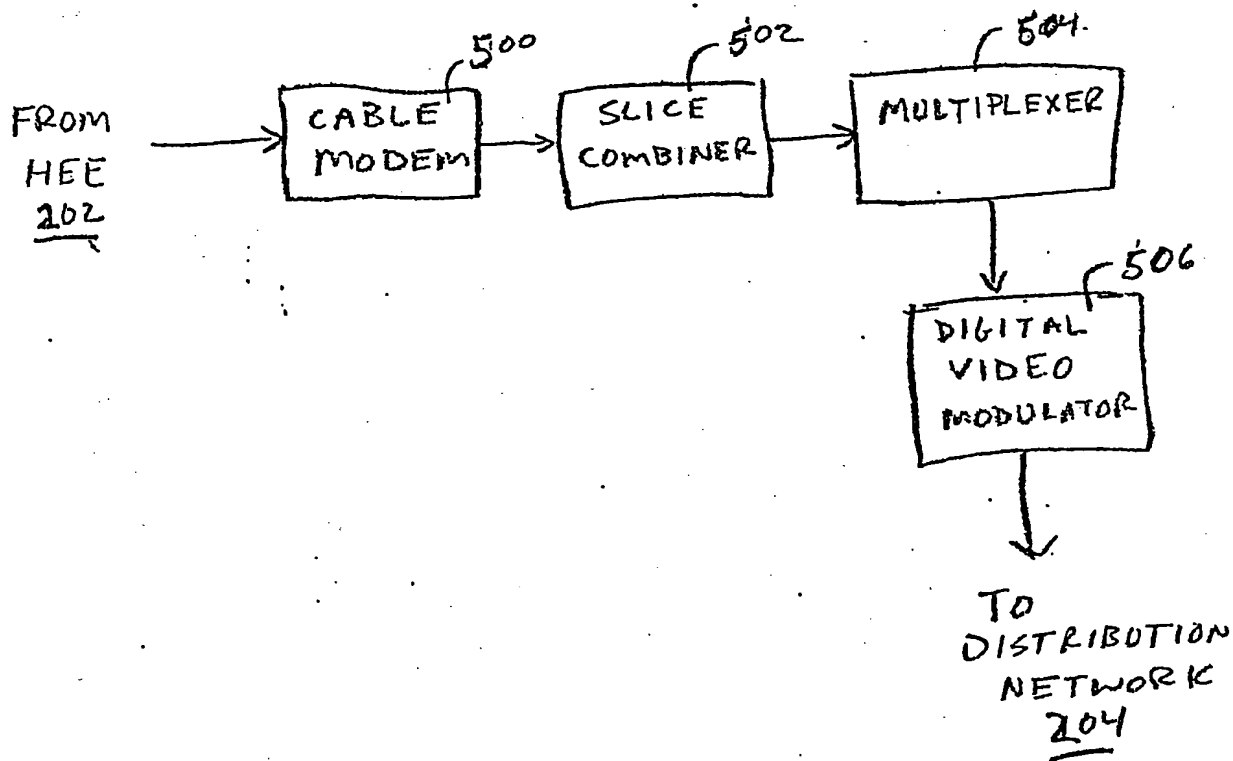


FIGURE 5

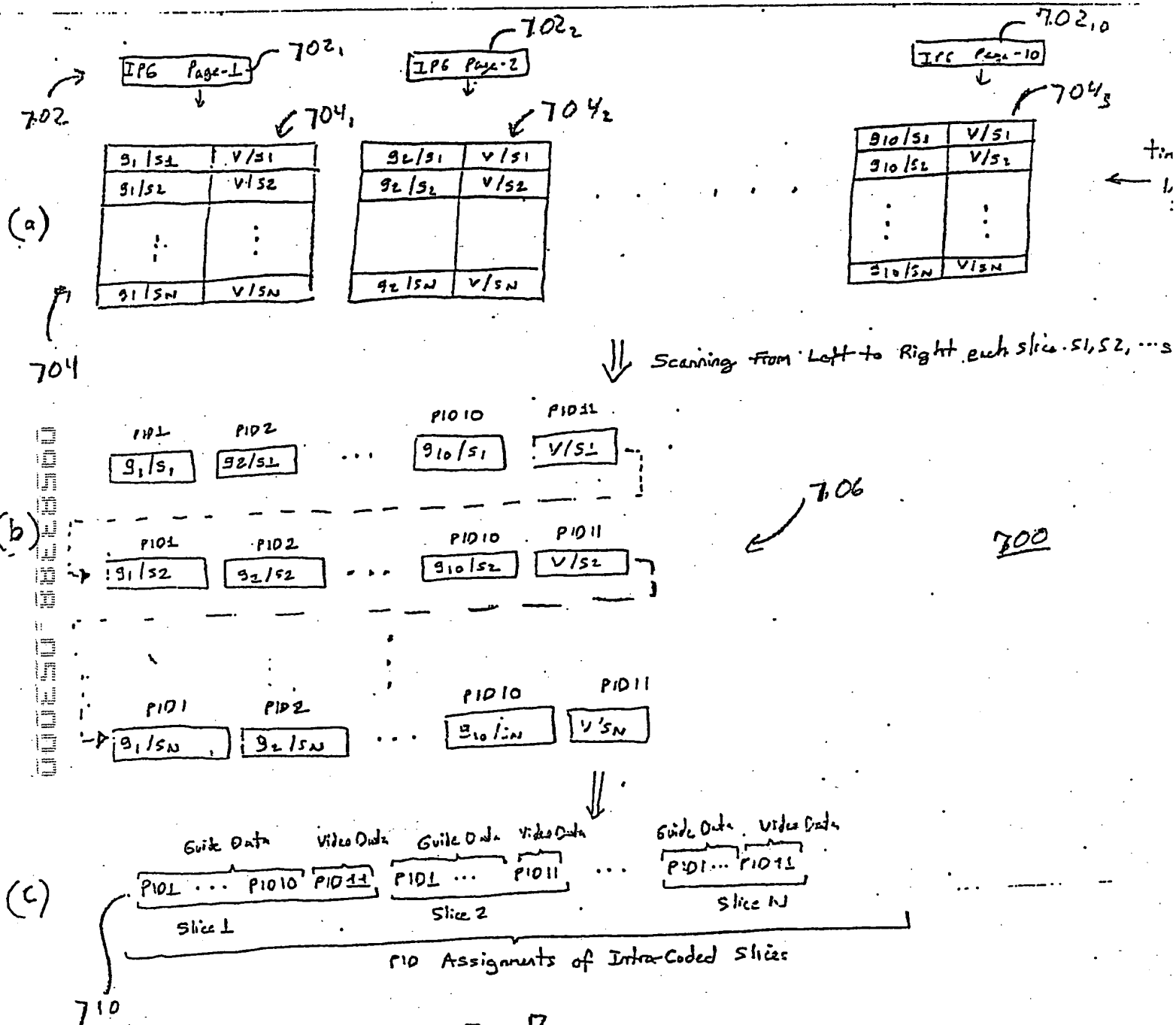
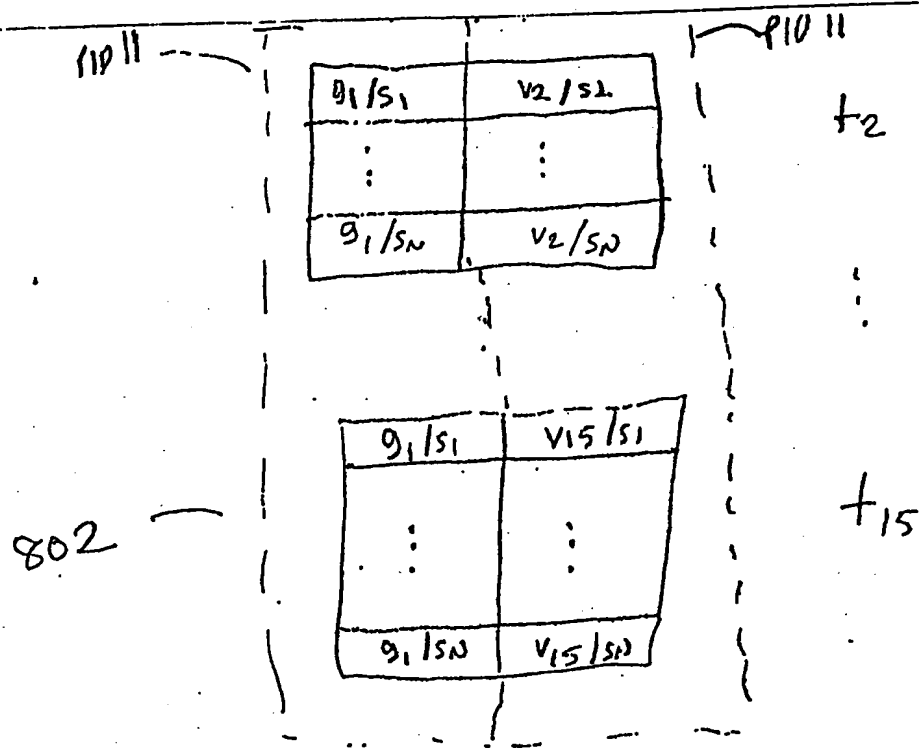
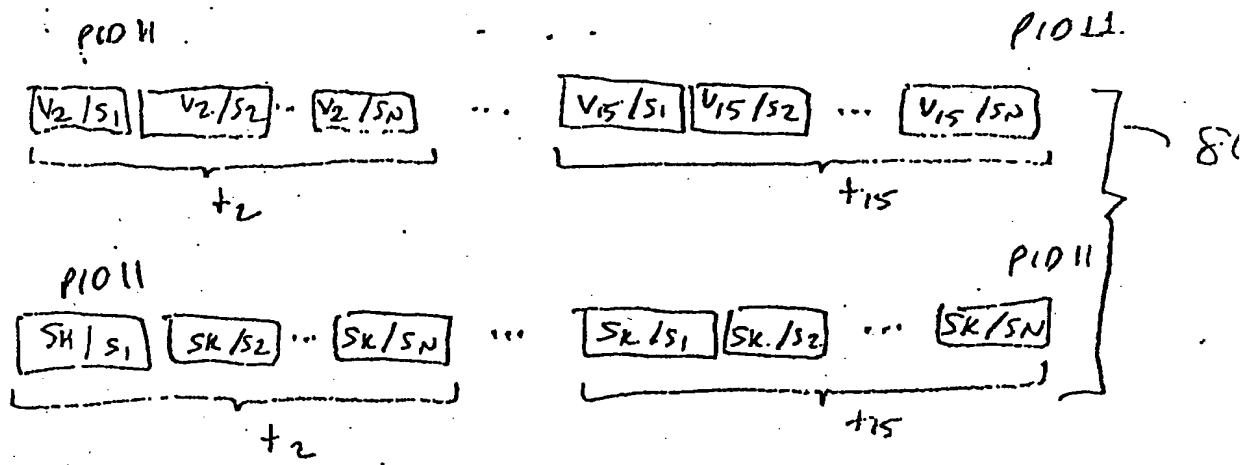


Figure 7



Scanning Video Slices
from left to right
top to bottom



800

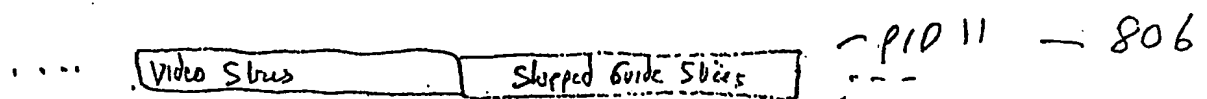


Figure 8

[illegible]

Figure 9

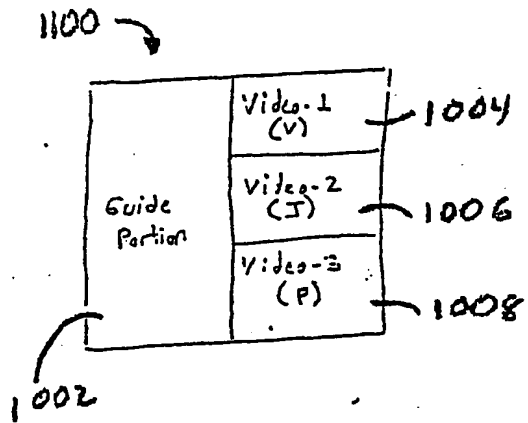


FIGURE 11A

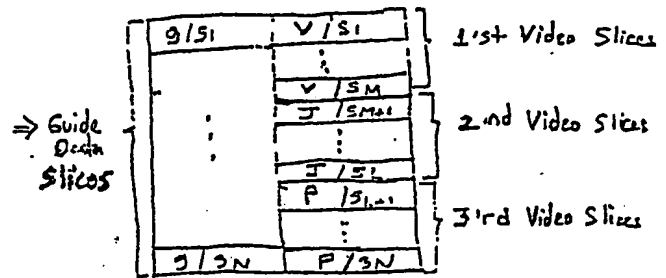


Figure 11B

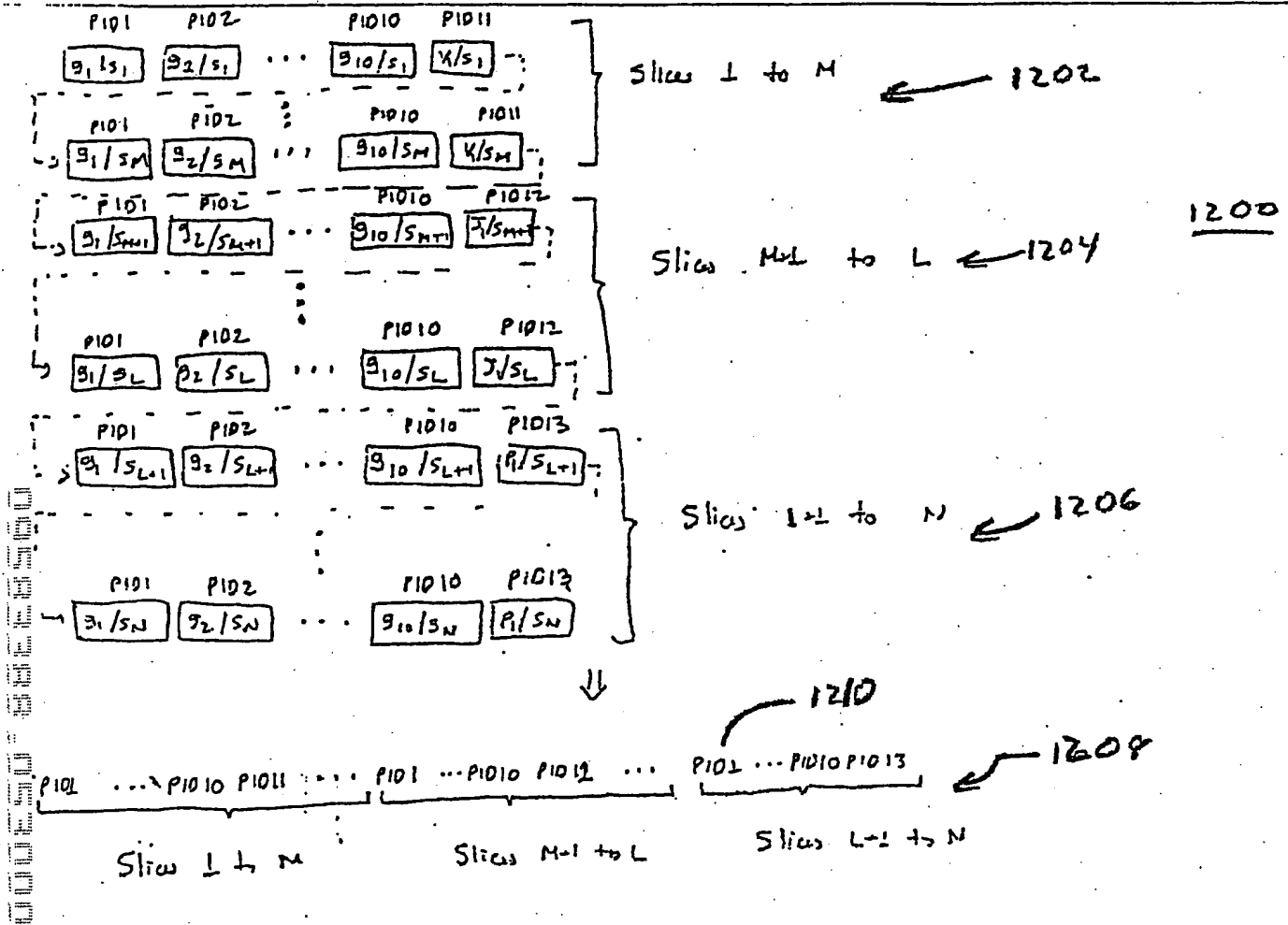
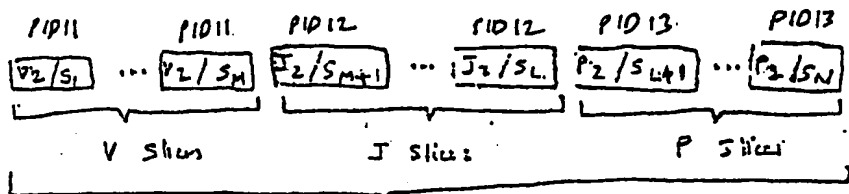


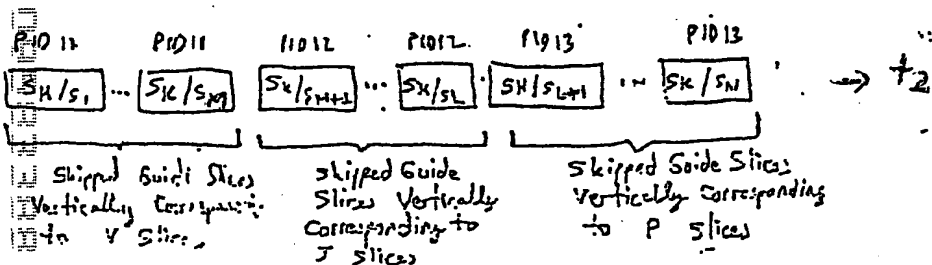
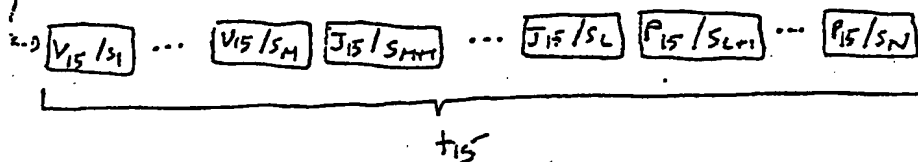
Figure 12



predicted
video

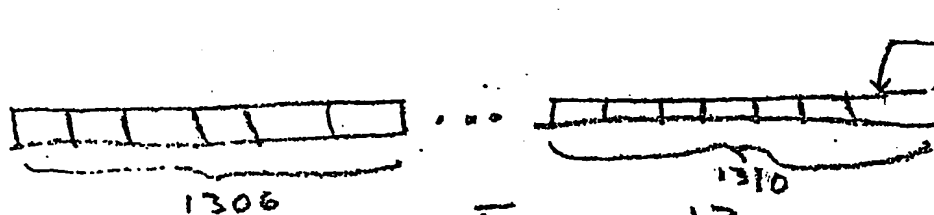
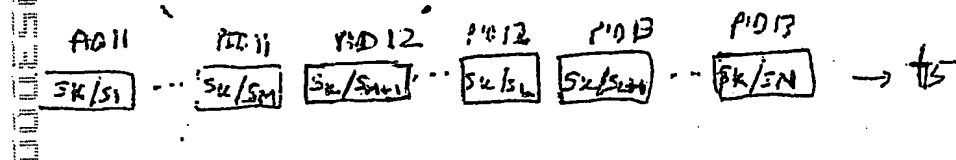
1300

1302



Skipped
Guide
Slices

1304



1312

1308

Figure 13

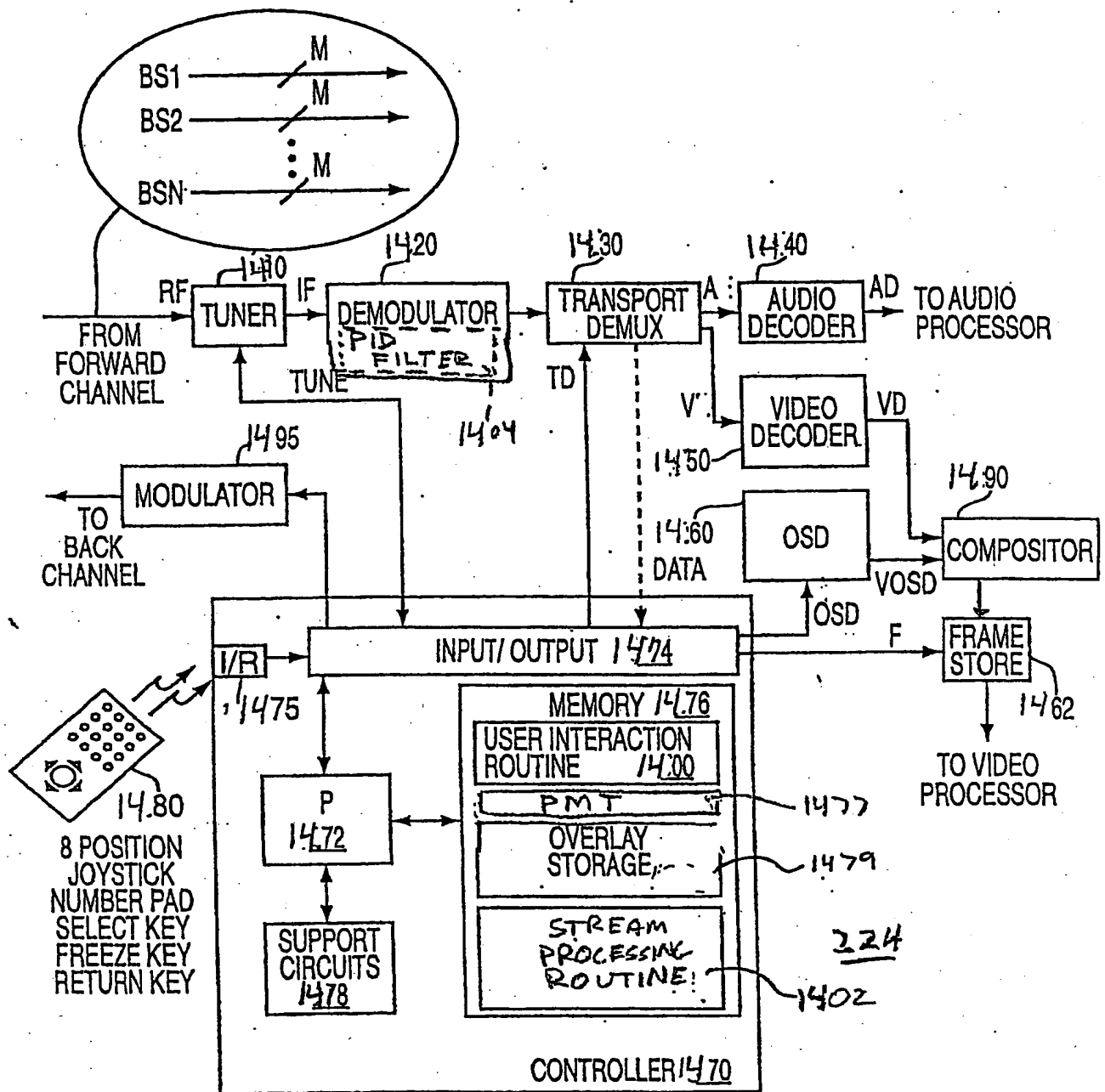


Figure 14

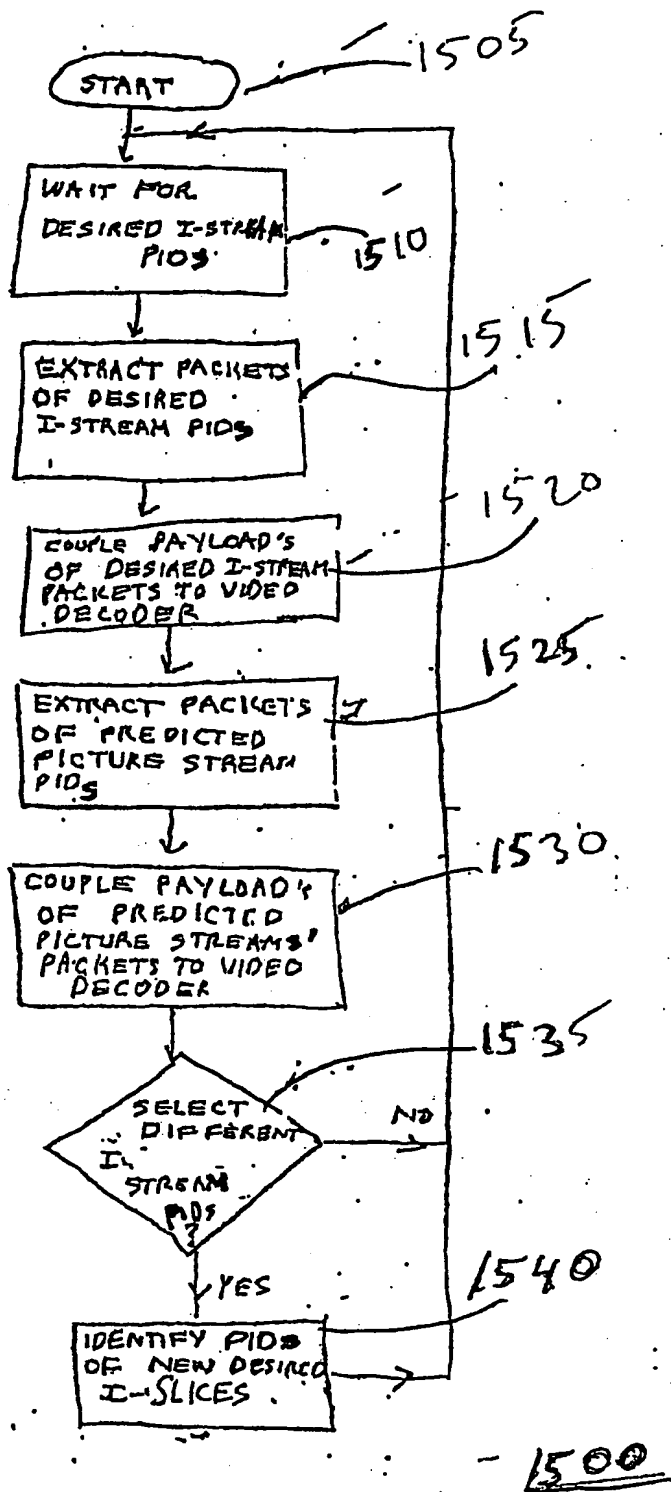


Figure 15

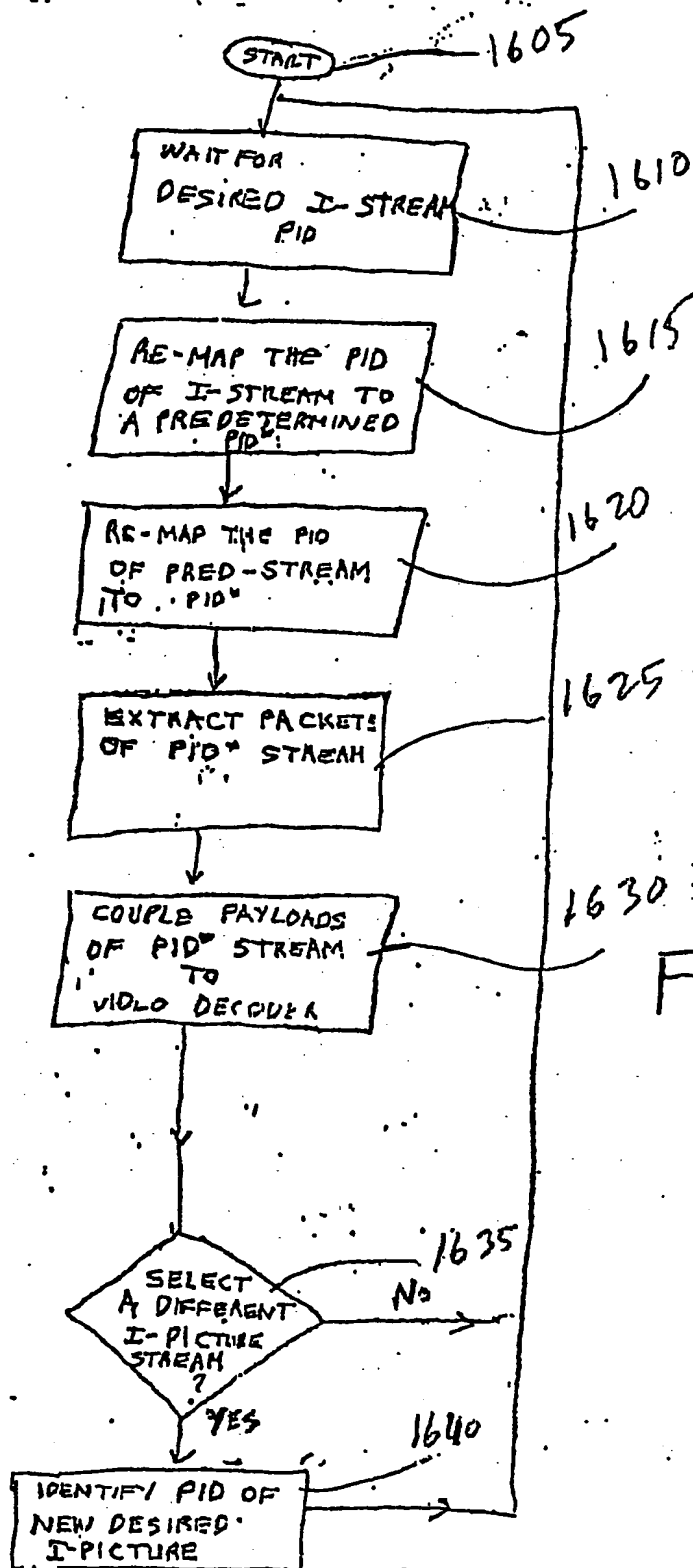
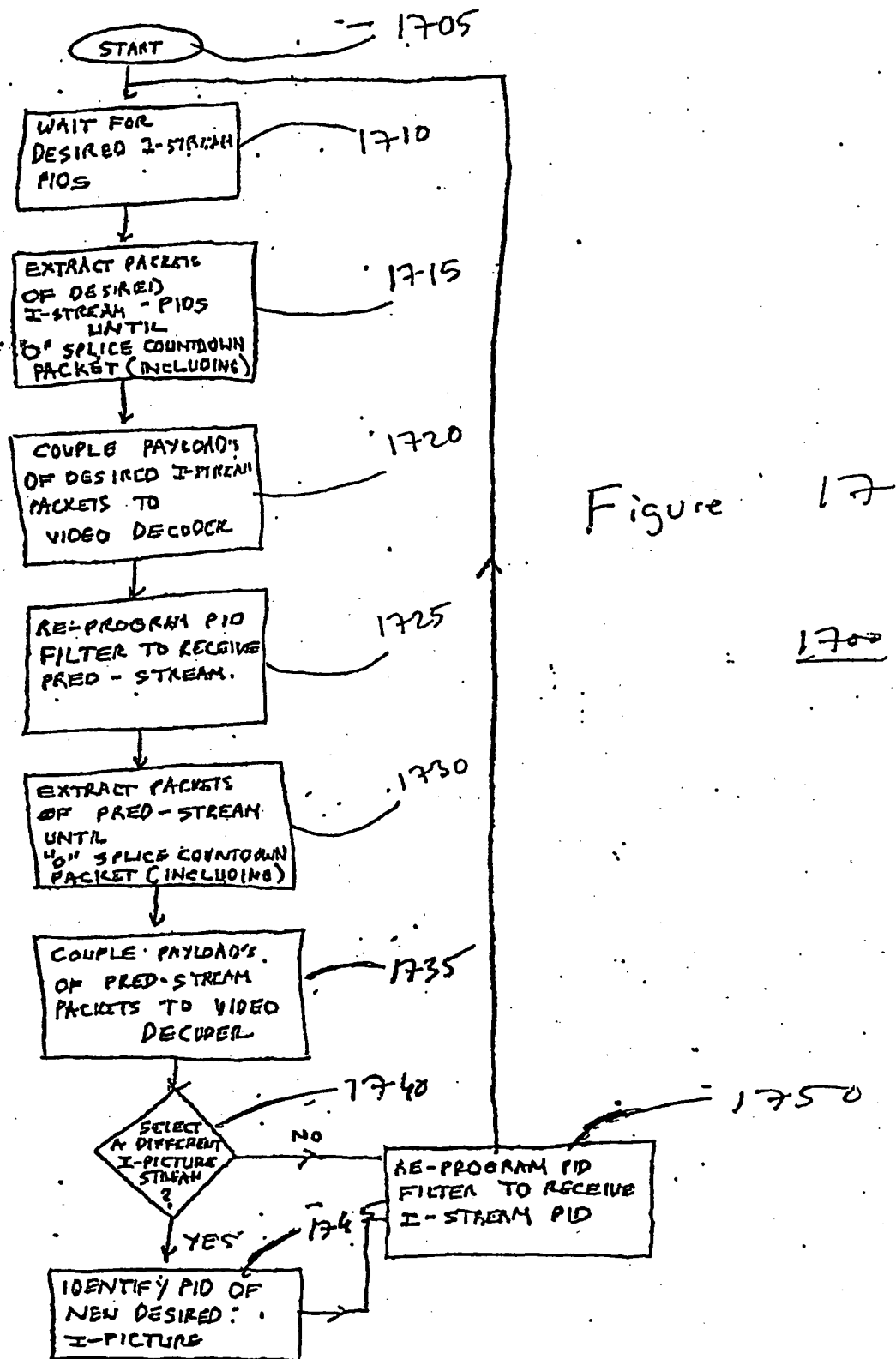


Figure 16



1800

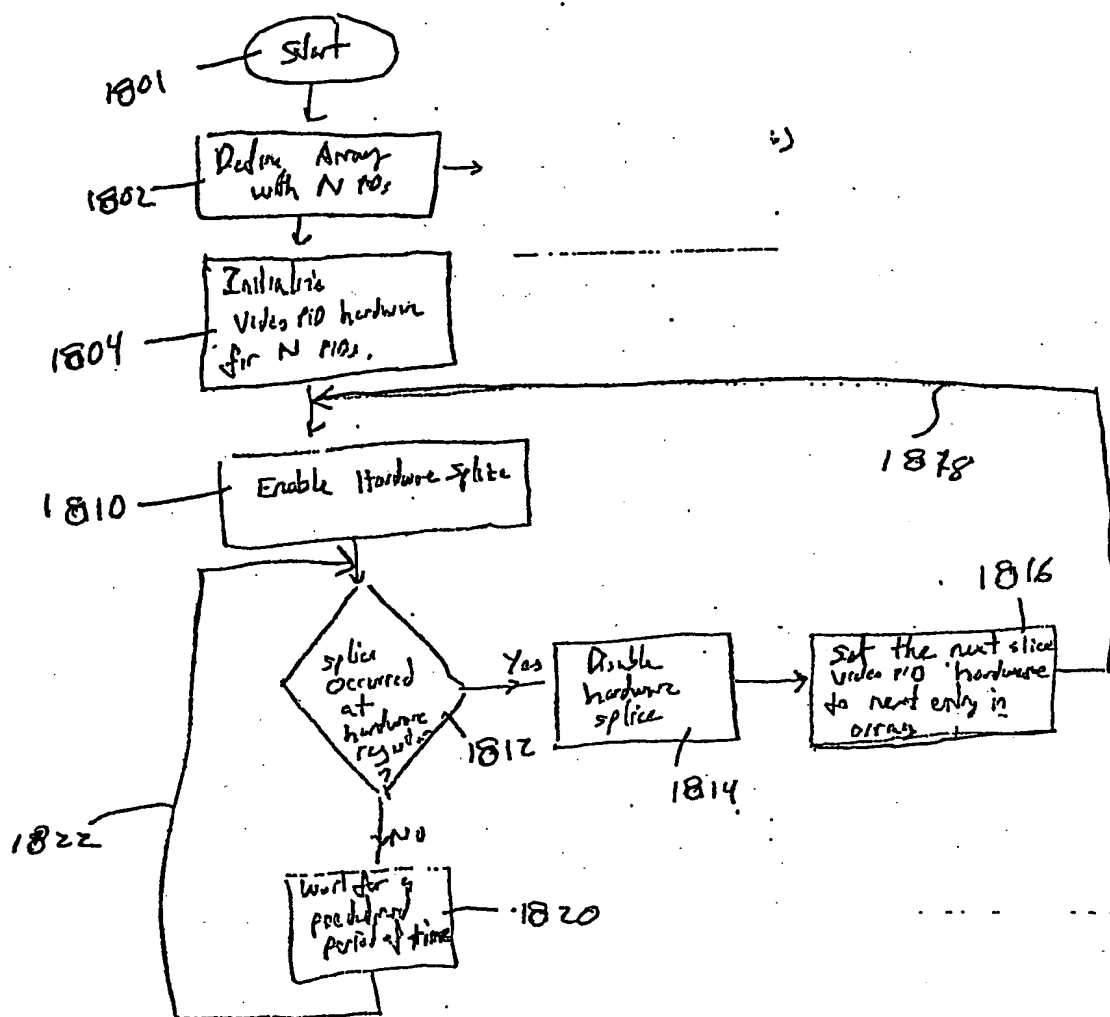


Figure 18

time = t_1

000050-8888800

<u>PID1</u>	<u>PID2</u>	<u>PID3</u>	...	<u>PID9</u>	<u>PID10</u>	<u>PID11</u>	<u>PID12</u>	<u>PID13</u>
$g1/s1$	$g2/s1$	$g3/s1$	...	$g9/s1$	$g10/s1$	$v1/s1$	$m1/s1$	$k1/s1$
$\hookrightarrow g1/s2$	$g2/s2$	$g3/s2$	...	$g9/s2$	$g10/s2$	$v1/s2$	$m1/s2$	$k1/s2$
$\hookrightarrow g1/s3$	$g2/s3$	$g3/s3$	...	$g9/s3$	$g10/s3$	$v1/s3$	$m1/s3$	$k1/s3$
...
$\hookrightarrow g1/sN$	$g2/sN$	$g3/sN$	...	$g9/sN$	$g10/sN$	$v1/sN$	$m1/sN$	$k1/sN$

~
1900

Intra-coded Guide and Video

Fig. 19

Time	PID 11	PID 12	PID 13	PID 14	PID 15	PID 16	PID 17	PID 18
t_2	V2/S1	M2/S1	K2/S1	V2/S2	M2/S2	K2/S2	V2/SN	M2/SN
t_3	V3/S1	M3/S1	K3/S1	V3/S2	M3/S2	K3/S2	V3/SN	M3/SN
t_4	V4/S1	M4/S1	K4/S1	V4/S2	M4/S2	K4/S2	V4/SN	M4/SN
t_5	V15/S1	M15/S1	K15/S1	V15/S2	M15/S2	K15/S2	V15/SN	M15/SN

Predicted Video 2000

Fig. 20

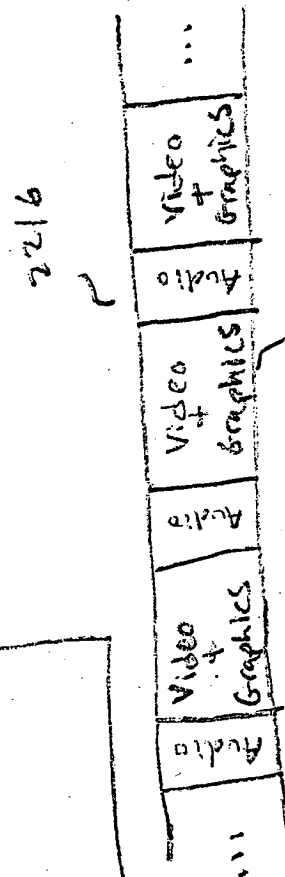
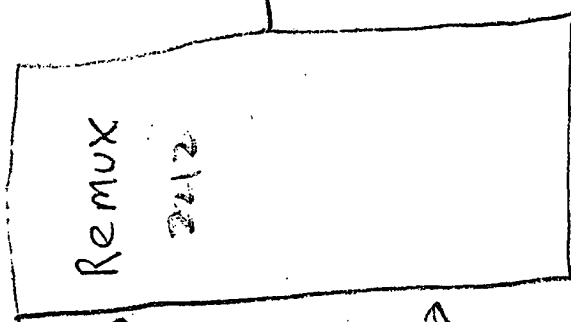
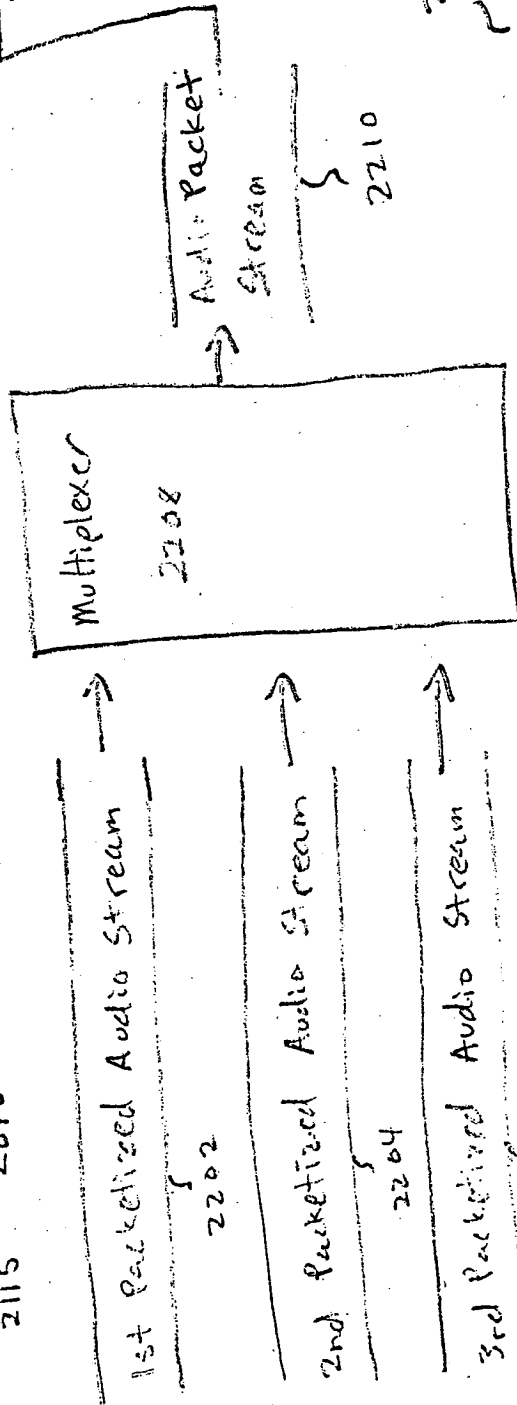
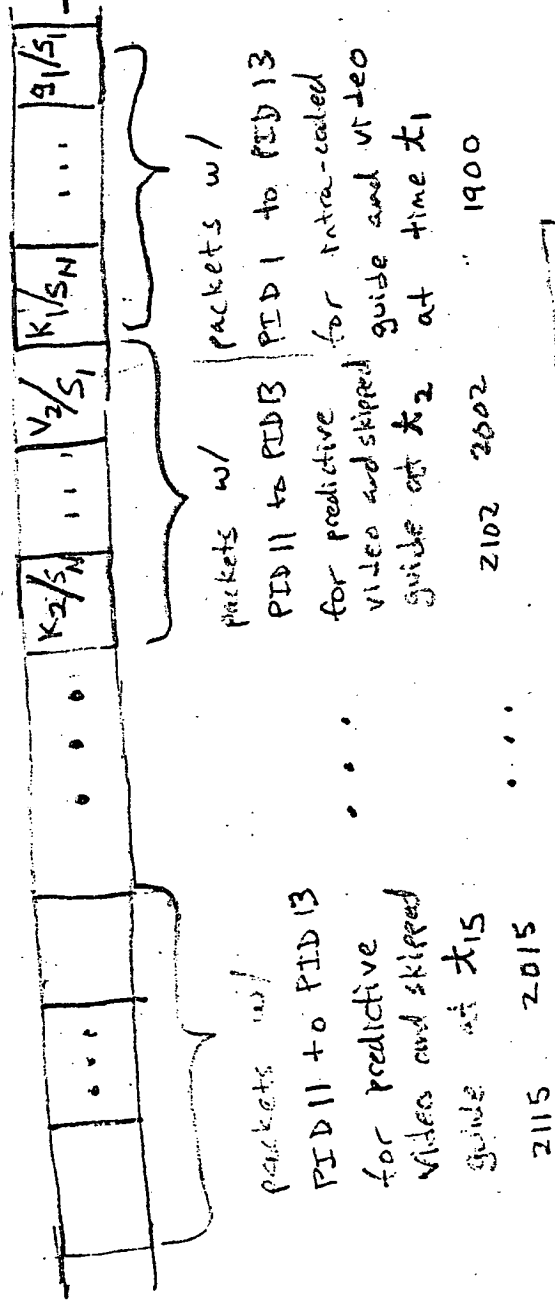
0000000000000000

time	PID11	PID12	PID13	PID11	PID12	PID13	PID11	PID12	PID13
t_2	SK/S1	SK/S1	SK/S1	SK/S2	SK/S2	SK/S2	SK/SN	SK/SN	SK/SN
t_3	SK/S1	SK/S1	SK/S1	SK/S2	SK/S2	SK/S2	SK/SN	SK/SN	SK/SN
t_4	SK/S1	SK/S1	SK/S1	SK/S2	SK/S2	SK/S2	SK/SN	SK/SN	SK/SN
\vdots	\vdots	\vdots	\vdots	\vdots	\vdots	\vdots	\vdots	\vdots	\vdots
t_{15}	SK/S1	SK/S1	SK/S1	SK/S2	SK/S2	SK/S2	SK/SN	SK/SN	SK/SN

Skipped Guide 2100

Fig. 21

Video and Graphics
2214, 2215



Transport Stream

Fig. 22

O_1	O_2	O_3
O_4	O_5	O_6
O_7	O_8	O_9

objects

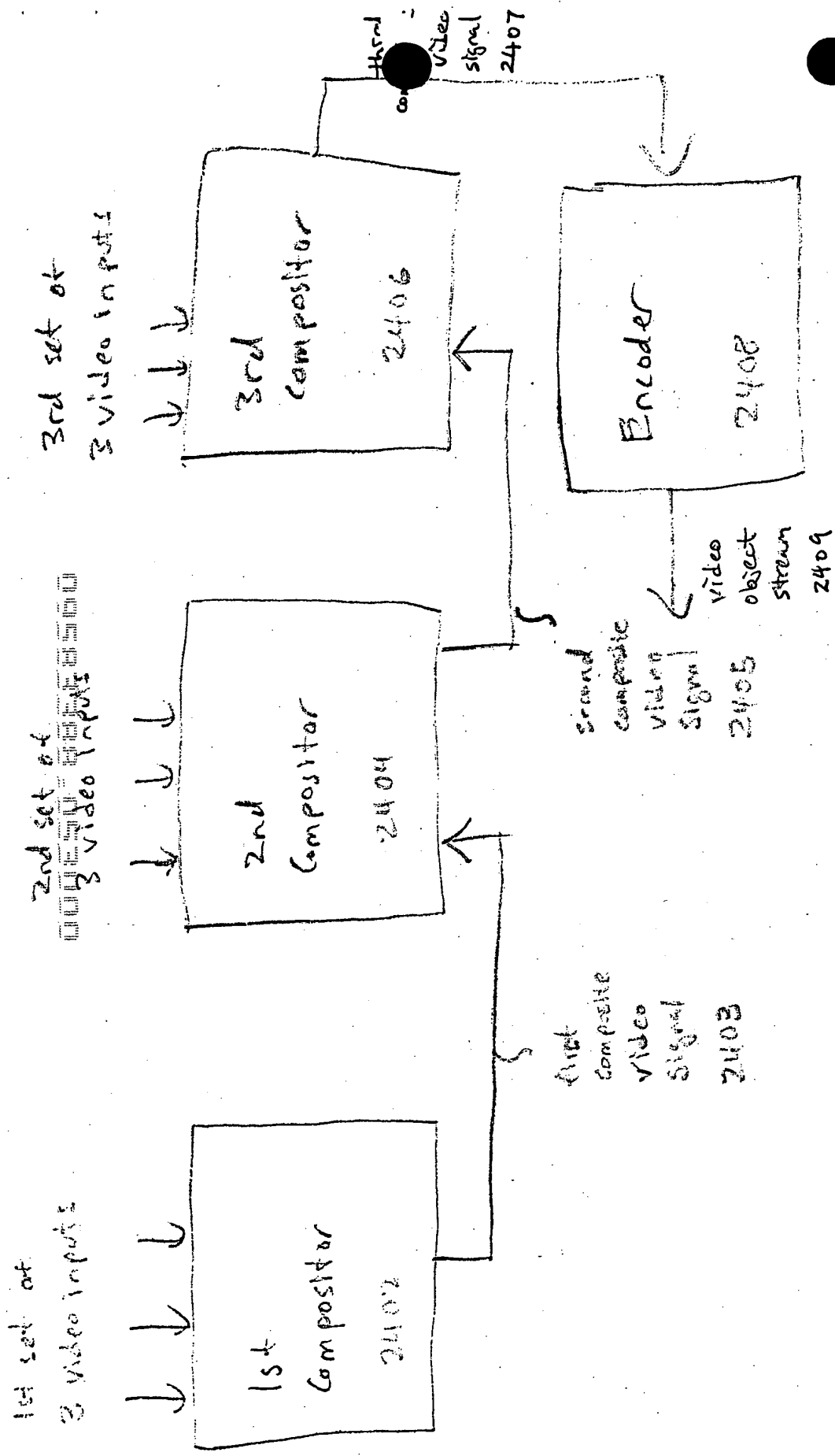
(a)

O_1/S_1	O_2/S_1	O_3/S_1
\vdots	\vdots	\vdots
O_1/S_N	O_2/S_N	O_3/S_N
O_4/S_{N+1}	O_5/S_{N+1}	O_6/S_{N+1}
\vdots	\vdots	\vdots
O_4/S_{2N}	O_5/S_{2N}	O_6/S_{2N}
O_7/S_{2N+1}	O_8/S_{2N+1}	O_9/S_{2N+1}
\vdots	\vdots	\vdots
O_7/S_{3N}	O_8/S_{3N}	O_9/S_{3N}

slice-based partitioning

(b)

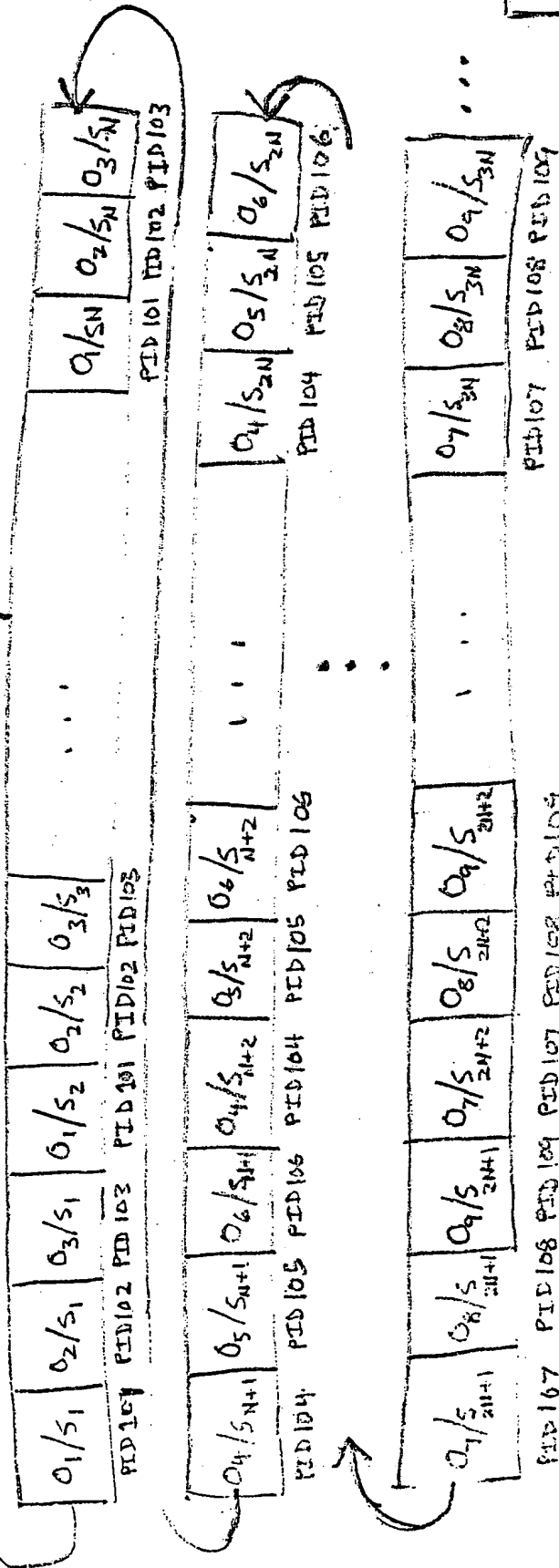
Fig. 23



Cascade Compositor

Fig. 24

2502



Remux
2506

2504

Multiplexed Packetized Audio Stream



Object Transport

Stream 2508

Fig. 25

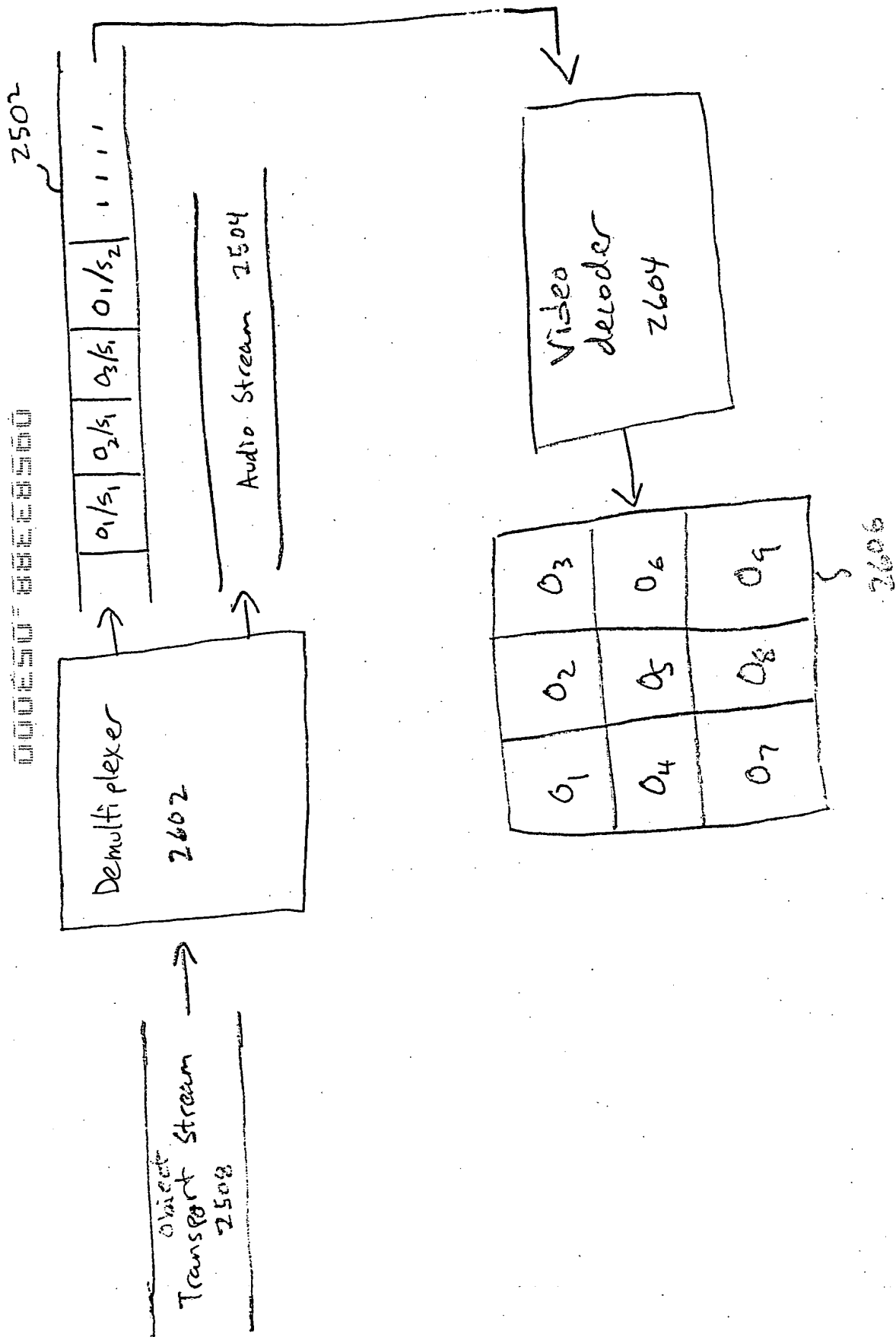


Fig. 26

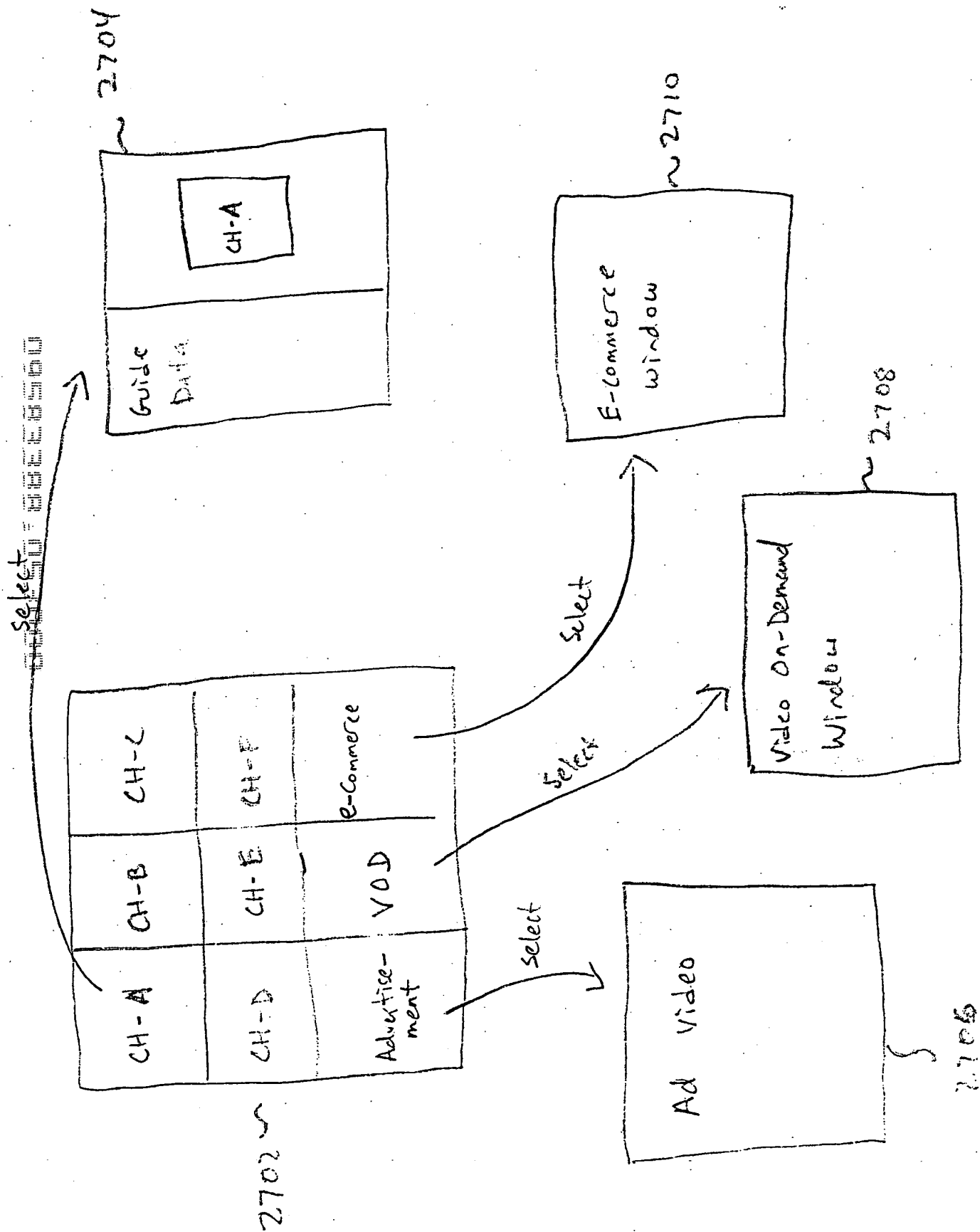


Fig. 27

0000000000000000

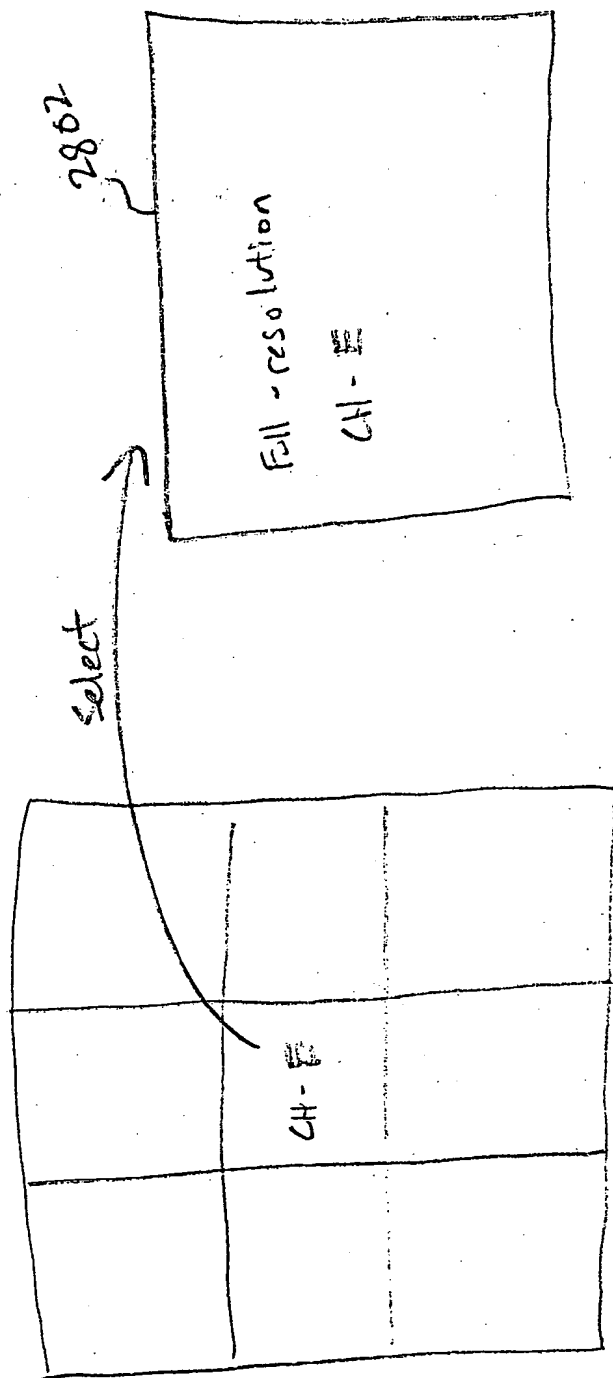


Fig. 28

0000000000000000

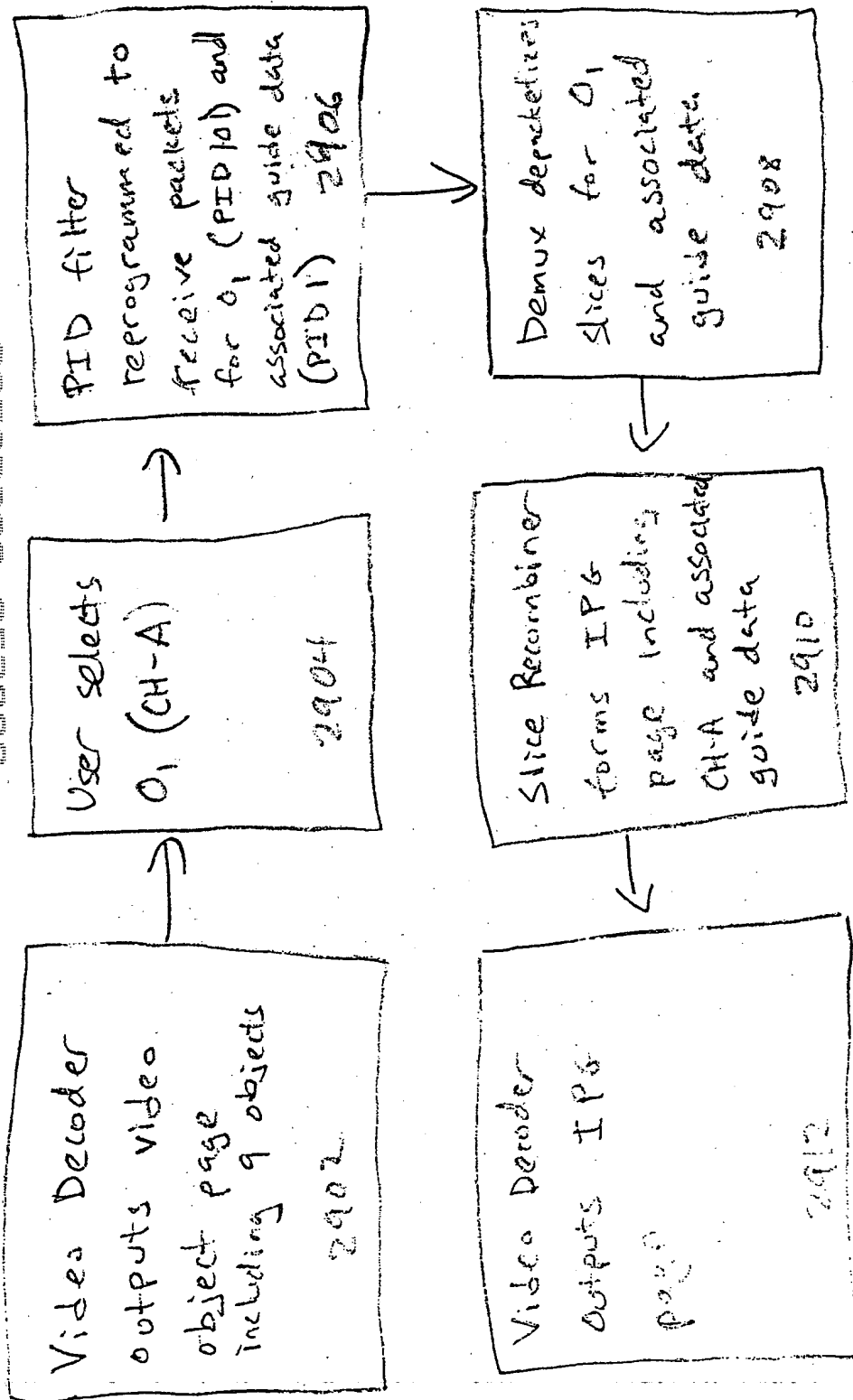
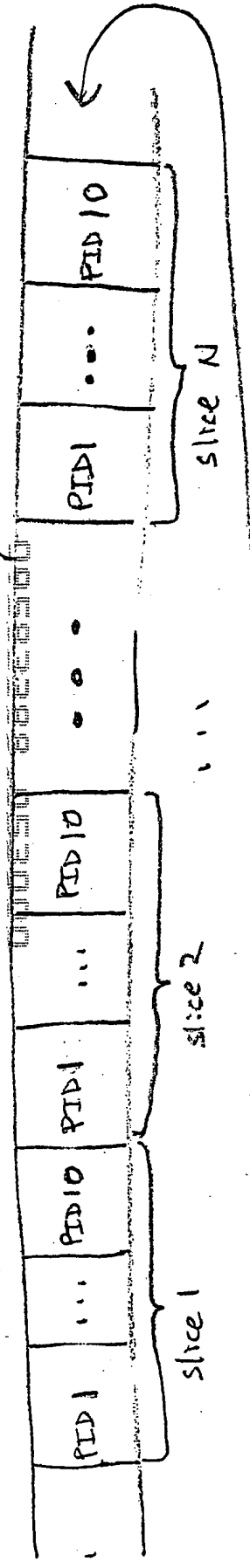


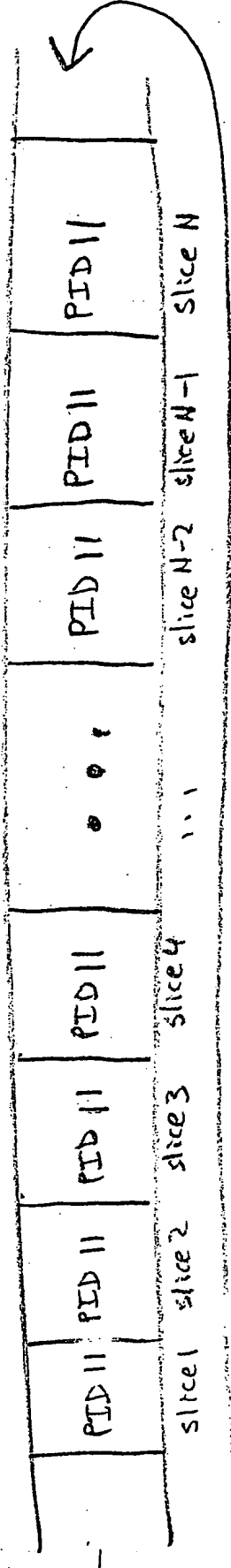
Fig. 29

3002

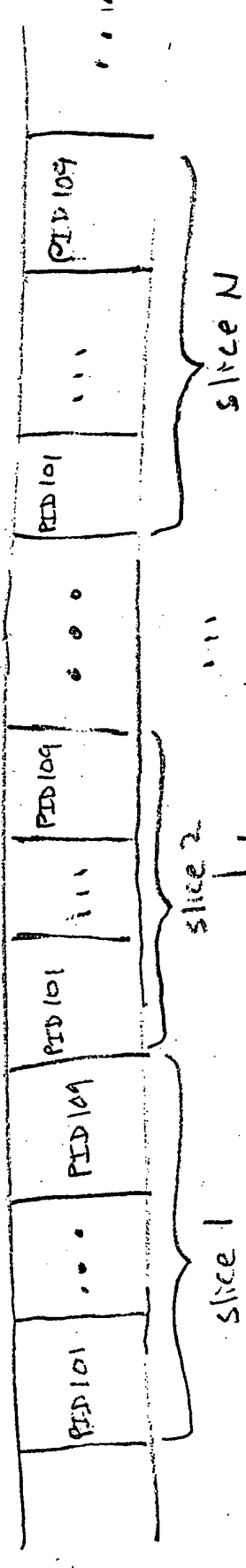


extra
wire
packets
3004

Fixed
table
packets
3006



Intra
and
predictive
objects
packets
3008



filtering
3010

3012

received
packets

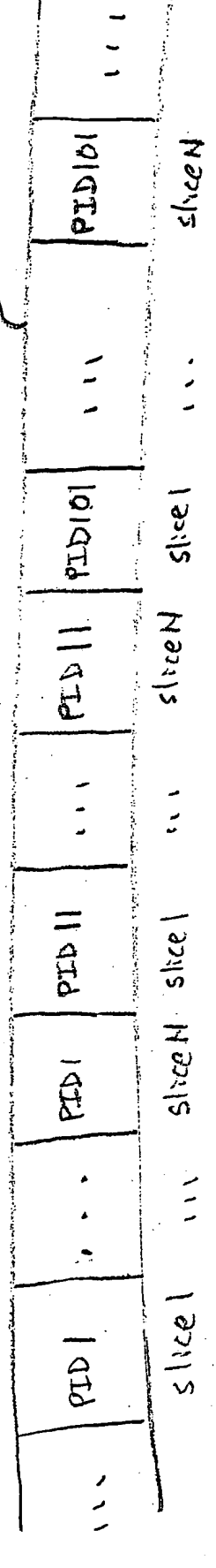
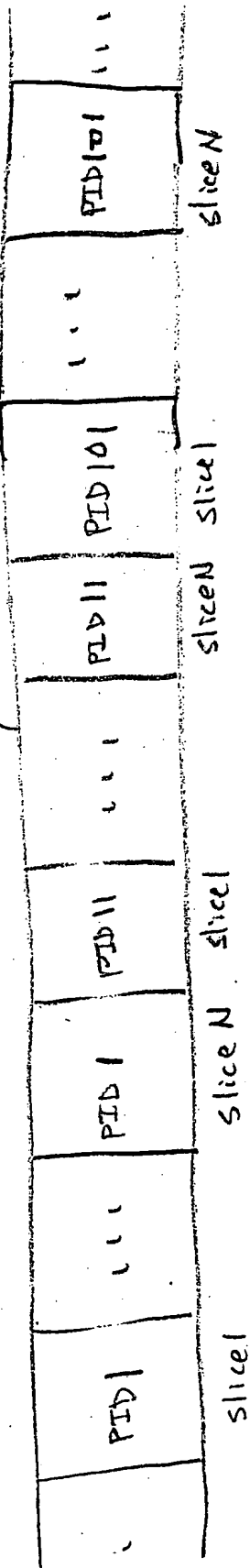


Fig. 30

CODED FRAME



slice
Recombination
3102

PID1/s1	PID101/s1
PID1/s2	PID101/s2
PID1/s3	PID101/s3
...	...
PID1/SN	PID101/SN

Intra-Coded Frame
3104

PID11/s1	PID101/s1
PID11/s2	PID101/s2
PID11/s3	PID101/s3
...	...
PID11 SN	PID101/SN

Predictive-Coded Frames
3106

Fig. 31

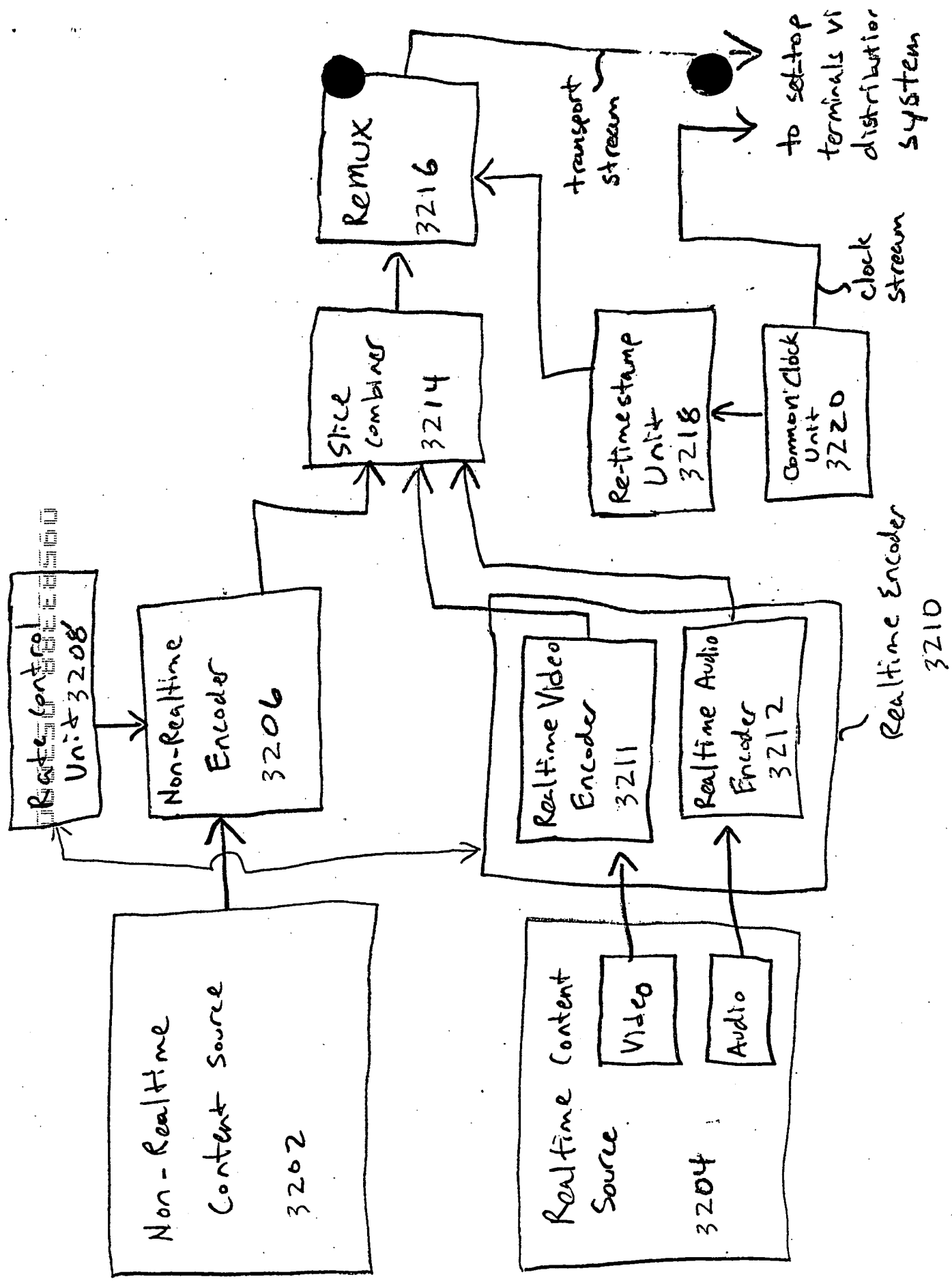


Fig. 32

Re-timestamping and Rate Control Apparatus

0000000000000000

3402	...	3304-0 (lighter)
3404	...	3304-1 (darker)
	...	3304-2 (lighter)
	...	3304-3 (darker)
	...	3304-4 (lighter)
	...	3304-5 (darker)
	...	3304-6 (lighter)
	...	3304-7 (darker)

3301

Fig. 34

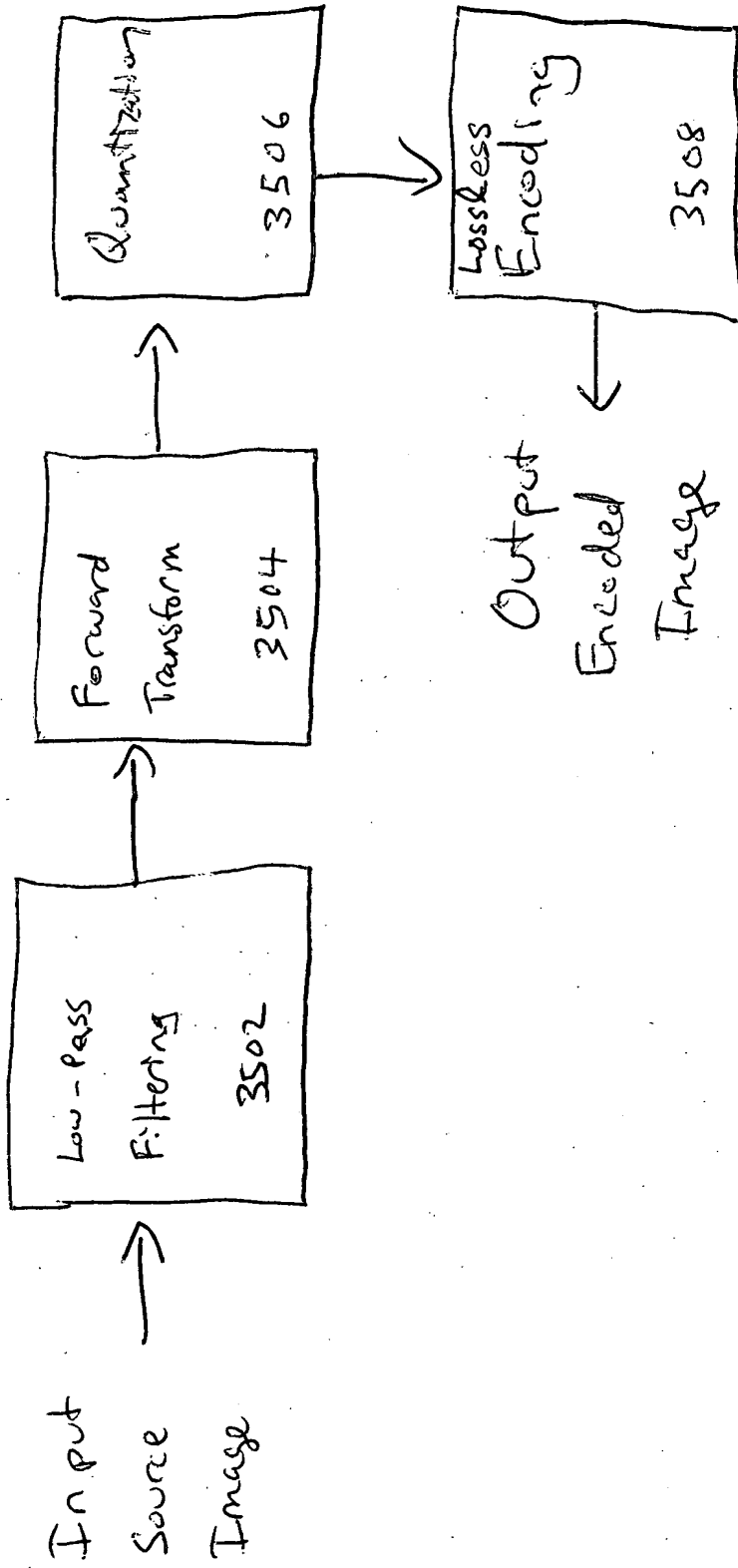


Fig. 35